



MISSOURI DEPARTMENT OF CONSERVATION

Fish and Wildlife Research Center • 1110 College Avenue
Columbia, Missouri 65201 • Phone 314/449-3761
LARRY R. GALE, Director

JDB
Site: Syntex-Verona
ID #: MOD007462154
B: cak: 17.8
Other: Spring River
Sampling 9/19/86
0751

September 18, 1986

RECEIVED

SEP 19 1986

Ms. Kathy Barrett (WSTM/SPFD/SCOM)
Region VII
U.S. Environmental Protection Agency
726 Minnesota Avenue
Kansas City, Kansas 66101



40032222
SUPERFUND RECORDS

L SECTION

Dear Ms. Barrett:

On August 25 and 26, 1986 white suckers (Catostomus commersoni) were collected from five locations on the upper Spring River. The fish were collected by electrofishing, wrapped in aluminum foil, frozen on dry ice and handled in a similar manner. Representatives from Syntex and the U.S. Environmental Protection Agency were present during sampling. The five sites corresponded to those identified in the "Verona Plant, Fish and Sediment Plan" with the exception of Site 4 which was moved .5 miles upstream. These sites were identical to those sampled in August of 1984 and 1985. The sampling locations are identified in Attachment A. The size and weight of each fish and the identifying EPA code is listed in Attachment B. The recommended minimum numbers of fish were met at all locations.

The fish were taken to our facility at Columbia, Missouri, thawed and prepared accordingly. The fish at sites 2, 3, 4 and 5 were weighed and measured and sequentially placed into two equal size groups designated as Groups A and B. The right skinless fillets of the fish in Groups A and B were removed and placed in separate polyethylene bags. These two groups are to be analyzed separately. The remainder of Group B fish (the entire fish minus the right fillet) was placed in a third bag for analysis. A fourth whole body estimate will be calculated.* The fish at Site 1 were prepared in a similar manner except they were sorted into three equal size groups. Groups A and B were prepared in a manner identical to sites 2-5 and the fish in Group C were simply left whole and refrozen for analysis. Thus a total of 16 composites were prepared for analysis which will generate 21 data points (five calculated).

COMMISSION

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East Prairie

Ms. Kathy Barrett

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September 18, 1986

The frozen fish samples were delivered to the Environmental Trace Substances Research Laboratory in Columbia, thoroughly homogenized, 100-gram samples removed, refrozen, and delivered to Dr. Mike Gross, University of Nebraska, by Federal-Express. A copy of this letter was forwarded to Dr. Gross.

Sincerely,


Ron Crunkilton, Biologist
Water Quality Research

RC:aa

Enclosure

cc: Dr. Gross

for TCDD
analysis
(2,3,4,5-)
as per Ron Crunkilton
9-24-86

Attachment B

Site 1 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
261	.185	AKJC4-004
257	.121	
257	.171	
279	.219	
303	.252	

Site 1 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
236	.114	AKJC4-005 (fillets)
250	.167	and
255	.179	AKJC4-006 (remainder)
265	.205	and
298	.266	AKJC4-020* (to be calculated)

Site 1 - Group C - Whole Fish

Total Length (mm)	Wt (kg)	EPA Number
315	.351	AKJC4-007
272	.233	
267	.233	
250	.172	
243	.176	

Site 2 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
397	.660	AKJC4-008
342	.477	
255	.200	
262	.213	
231	.139	

* Total Wt of fillets for Group 1B fish in .159 kg for calculation purposes.

Site 2 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
421	.822	AKJC4-009 (fillets)
248	.191	and
310	.342	AKJC4-010 (remainder)
318	.442	and
255	.177	AKJC4-021* (to be
241	.163	calculated)

Site 3 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
303	.327	AKJC4-011
250	.200	
322	.397	
241	.165	
241	.163	

Site 3 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
330	.419	AKJC4-012 (fillets)
265	.217	and
253	.212	AKJC4-013 (remainder)
243	.165	and
245	.168	AKJC4-022* (to be
		calculated)

Site 4 - Group A - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
243	.163	AKJC4-014
269	.201	
228	.115	
219	.118	
224	.114	

* Total weight of fillets for Group 2B fish is .290 kg for calculation purposes.

* Total weight of fillets for Group 3 B fish is .175 kg for calculation purposes.

Site 4 - Group B - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
221	.115	AKJC4-015 (fillets)
301	.301	and
243	.148	AKJC4-016 (remainder)
212	.100	and
228	.127	AKJC4-023* (to be calculated)

Site 5 - Fillets Only

Total Length (mm)	Wt (kg)	EPA Number
306	.385	AKJC4-017
301	.380	
301	.345	
289	.279	
274	.262	

Site 5 - Fillets and Remainder

Total Length (mm)	Wt (kg)	EPA Number
260	.243	AKJC4-018 (fillets)
308	.365	and
296	.352	AKJC4-019 (remainder)
327	.474	
269	.265	AKJC4-024* (to be calculated)

* Total weight of fillets for Group 4B fish is .104 kg for calculation purposes.

* Total weight of fillets for Group 5B fish is .260 kg for calculation purposes.

